Program: B.Tech in Production Engineering   **Academic Year: 2022**   **Duration: 3 hours**

Date: 06.01.2023

Time: 10:30 am to 01:30 pm

Subject: World Class Manufacturing (Semester VII)   **Marks: 75**

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover page of the Answer Book, which is provided for their use.

(1) This question paper contains two pages.

(2) All Questions are Compulsory.

(3) All questions carry equal marks.

(4) Answer to each new question is to be started on a fresh page.

(5) Figures in the brackets on the right indicate full marks.

(6) Assume suitable data wherever required, but justify it.

(7) Draw the neat labelled diagrams, wherever necessary.

Question No.	Attempt all Questions.	Max. Marks
Q.1.	Attempt any three questions. a) Illustrate Halls WCM model. b) List down the keys for WCM excellence. c) Illustrate the model for WCM proposed by Author R Gandhi. d) Illustrate the Journey of implementing WCM by block diagram and elaborate. e) Write short note on Evaluation of WCM.	15
Q.2.	Write short note on any three. a) Lean Thinking b) Toyota Production System. c) Six Sigma d) Value Added Manufacturing e) Theory of Constraints	15
Q.3.	Write short note on any three. a) 5 S.	15

	b) Customer Satisfaction	
	c) Poka-Yoke	
	d) Seven Basic Quality Tools.	
	e) Visual Control	
Q.4.	Attempt any three questions. a) List the importance of SHRM. b) What are the major roles of SHRM in an organization? c) Compare the Traditional HRM and SHRM in tabular format d) Elaborate The VRIN characteristics of SHRM. e) List down the benefits of a Strategic Approach to HR. **Note: Strategic Human Resource Management (SHRM)**	15
Q.5.	Attempt any three questions. a) List down the limitations of traditional performance measures. b) Illustrate and elaborate the Performance Pyramid. c) Write shot note on The EFQM business excellence model. d) Write short note on The TOPP performance model. e) What is the approach of Sink and Tuttle performance measurement framework?	15